

## J. S. Whitaker Will Coordinate Area-Wide Environmental Health Efforts For Carbide

Will Be Concerned With All Phases of Air, Water And Soil Pollution In All Corporation's Plants



Dr. Joseph S. Whitaker

## Union Carbide Forms New Group

Union Carbide Corporation recently announced intentions to form a new company for the purpose of accelerating the development of its new polyethylene insulated sodium conductor in the power field. The company will be known as Nacon Corporation and will be principally owned and managed by Union Carbide. Simplex Wire and Cable Company will own a minority interest. As was announced late last year, Simplex has been testing and evaluating this new system for Union Carbide. Officers and directors of the Nacon Corporation will be named following approval of its formation by the Union Carbide and Simplex Boards of Directors.

Union Carbide recently completed a pilot plant for the development and manufacture of insulated sodium conductors at its Bound Brook, New Jersey, plant. In the initial stage of operation, Nacon will purchase materials and services from Union Carbide and Simplex. As the business develops, Nacon will acquire facilities as needed. The new conductor will be sold under the trade mark Nacon.

Nacon cables are lighter in weight, more flexible and show promise of being more economical than conventional copper or aluminum cables. Field trial tests of 15 KV Nacon cables are presently being conducted by Commonwealth Edison Company, Chicago; the Ohio Power Company, Canton; one of the operating companies of the American Electric Power System, and Boston Edison Company, Boston. Additional field trial evaluations are being planned.

## UNKINDEST CUT OF ALL

The manager of a well-publicized New York restaurant recently fired one of his waiters. Before the firing, however, he gave the employee a raise . . . said he wanted him to lose a better job!

The appointment of Dr. Joseph S. Whitaker as coordinator of environmental health for Union Carbide Corporation, was recently announced by Birny Mason Jr., president.

In the newly created post, Dr. Whitaker will assist Union Carbide's management in its continuing numerous installations throughout the country. He will have responsibility for coordinating all Union Carbide activities concerned with air, water and soil pollution in and around corporation plants. He will also serve as a consultant on all matters requiring corporate action that are related to pollution control or to other environmental health problems.

An important function of the new coordinator's job will be to keep corporate management informed of developments in pollution control at a national, state and local level. Union Carbide has about 250 major plants in the United States alone. At many locations, it has shared its specialized pollution control knowledge with communities nearby. An example of this is the industrial and municipal waste-treatment plant that the corporation operates in partnership with the city of South Charleston, West Virginia. This plant handles all waste effluent from the corporation's chemicals complex there and also municipal waste.

Dr. Whitaker has been with Union Carbide since 1942. He has been assistant general manager of the technology licensing department since 1964 and previous to that was a vice-president of Union Carbide Development Company.

He is a graduate of Emory University, Atlanta, Georgia, where he received his AB degree in 1933 and MS in 1934. He was awarded a PhD from Pennsylvania State University in 1940.

## Revised Withholding Forms Due Monday

Revised W-4 forms must be turned in by Monday, April 25. The Payroll Department needs to know your marital status and the number of dependents you will be wanting to claim on the new withholding schedule. The new system of withholding (in a graduated scale) goes into effect after May 1.

The revised schedule will more closely approximate tax liability than the old straight 14 per cent deductions did.

## LASL's Ribe Leads Thermonuclear Seminar

Dr. Fred L. Ribe, Los Alamos Scientific Laboratory, will lead this week's Thermonuclear seminar. His subject will be "Scylla and Scyllac Experiments at LASL."

The seminar is set for Thursday, April 21, at 9 a.m. in the TD Conference Room, Building 9201-2.



PLANT SUPERINTENDENT R. F. HIBBS presents Rudy Payne his certificate which completes his 50-hour study in numerical control machines. Others successfully finishing the course, from left, are M. Q. Kosier, W. J. Mason, R. R. Brewer, E. H. Bryant, J. P. Cavanaugh, J. O. Evans, J. H. Nash, L. H. Shular, A. D. Hickey, T. W. Compton, A. O. Roberts, J. F. Terrell, Payne, J. S. Cobb and R. F. Hibbs.

## Fabrication, Engineering Men Complete Course In Numerically Controlled Machining Tools

A total of 17 men, 10 from the Fabrication Division, and seven from Engineering were honored recently for their completion of a special training program.

The group on March 30 completed a 50-hour Advanced Training Program on Numerically Controlled Machine Tools. Thursday, April 7, was assembly-time for the degree-awarding.

Those from Fabrication participating in the course were J. J. Brock, J. P. Cavanaugh, T. W. Compton, A. D. Hickey, M. Q. Kosier, J. H. Nash, R. Payne, A. O. Roberts, L. R. Shular and J. P. Young. From Engineering, R. R. Brewer, E. H. Bryant, J. S. Cobb, K. D. Cook, J. O. Evans, W. J. Mason and J. F. Terrell completed the program.

### Purpose Of Program

The over-all goal of the course was to give each participant a balanced, useable experience in the theory and practice of numerical control. It was recognized that an important part of that goal was to strengthen communications between those concerned with the manufacturing - supervisory aspects of numerical control and those concerned with the engineering-programming aspects.

Instructions were supported by several student participation exercises and by four graded examinations. In addition, each participant was provided with a workbook of appropriate reference material and a textbook entitled "Numerical Control in Manufacturing."

### Murphy Heads Efforts

Instructors for the course include R. V. Miskell, Engineering; C. M. Moulton, E. W. Pipes and D. N. Smith, Maintenance; and D. R. Alford, R. E. Bohanan, R. F. Graham, K. G. Kahl, all from Fabrication. S. M. Murphy, Fabrication, directed the entire program.

Y-12 Plant Superintendent Roger F. Hibbs presented each stu-



NUMERICAL CONTROL MACHINE TOOL instructors are shown from left, Keith G. Kahl, E. W. Pipes, C. M. Moulton, R. E. Bohanan, Ron Miskell and Dave Alford. S. M. Murphy, program director, is seen standing. Not present were R. F. Graham and D. N. Smith.

dent his certificate. Fabrication Division Superintendent Marvin F. Schwenn briefly congratulated the students, commenting on the home-work and extra time each man invested in the program.

"Y-12 recognizes outstanding efforts such as these," Hibbs stated. "Keeping abreast of the latest developments is highly essential to the growth of the plant. Our capabilities have grown through the years, and continue to grow. Diversification into the complicated, intricate business of numerically controlled machine tools was a natural for us. Each man is to be congratulated on his willingness and ability to continue his growth and training in Y-12."

### Details Of Studies

The 50-hour course consisted of two phases, the theory of numerical control and a laboratory Phase I, the theory section, in-

cluded an introduction; the economic and advantages of numerical control in manufacturing; N/C machine tools, design, control systems, block diagram components and operating characteristics; Machine tools, their com-

Continued on Page 4

## SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
45 Days Or  
1,231,000 Man-Hours  
Through April 17  
Without A Disabling  
Injury  
Phone 3-7755  
(Unofficial Estimate)  
For Daily Report  
On Accident-Free Hours

# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG ..... Editor

Member



Appalachian  
Industrial  
Editors'  
Association

OFFICE

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Oak Ridge, Tenn. 37830  
Bldg. 9704-2 Room 137  
Telephone 3-7100



Mrs. George Scott Jr.

## SCOTT - SELVIDGE

A double-ring ceremony at 7 p.m. Saturday, March 19, united Miss Peggy Selvidge and Mr. George Scott Jr. in marriage. The rites were performed by the Reverend Riley Huffstetler, at the Booth's Chapel Methodist Church.

The bride is the daughter of Mr. and Mrs. Lewis E. Selvidge, Route 3, Lenoir City. The groom is the son of Mr. and Mrs. George Scott Sr., also of Lenoir City. (The bride's father is in Y-12's Electrical Department.)

Mrs. Scott is employed by Continental Hair Fashions. Mr. Scott attended Knoxville Business College and is employed by J. E. Lutz and Company.

A reception honored the couple at the bride's home immediately after the wedding.

The Scotts are at home at 7300 Kingston Pike, Knoxville.

## JEALOUS FEMALES

**Wife** — I suspect my husband is having an affair with his secretary.

**Maid** — Fiddle-dee-dee. You're just saying that to make me jealous.

Drive as if your life depended on it. It does.

## Secretaries Group In Workshop Saturday

### NSA Will Announce Scholarship Winner

The Oak Ridge Chapter of the National Secretaries Association (International) is holding its annual workshop this weekend. The event is set for Saturday, April 23, at the Holiday Inn, Oak Ridge.

Registration will be held between the hours of 9 and 9:30 a.m. Saturday. The welcoming address will be given by Claude Bruce, administrative assistant to the superintendent of the Oak Ridge School system.

William Holland, U.S. Civil Service Commission, will conduct the first session on "Secretaries with the U.S. Government—State Department Foreign Service and U.S. Civil Service Opportunities."

### Exhibit Planned

Then will follow a review of the exhibits: A. M. Luther Jr. and Ray Ellis from Knoxville Business College will demonstrate electrostenography. H. W. Elliott from the Cherokee Typewriter and Adding Machine Company will show the latest in office machinery. John Temple, IBM Corporation; Terry Nickle, Southern Bell Telephone and Telegraph Company, and Bill Pitts, Xerox Corporation, will also demonstrate some of their company's latest equipment.

The Honorable Allen Kidwell, Oak Ridge City Judge and Representative from this area in the Tennessee Legislature, will speak to the assembled secretaries, telling them "Your Employer May Be Legally Liable for Your Actions."

### Good Grooming Session

A good grooming session follows, featuring Dixie Graham, Miller's Fashion Coordination Department. She will discuss the proper wearing apparel and make-up for the working girl.

Highlight of Saturday's program will be the Scholarship Luncheon... featuring the presentation of the typing and shorthand awards, and the presentation of the annual Scholarship Award.

### Mabel Tyer President

The NSA Chapter is sponsoring the event, along with the Future Secretaries Association. Officials in the NSA Chapter include Mabel Tyer, president; Natalie Tarr, vice president; Wilma Housewright, corresponding secretary; Mary Cusman, recording secretary; Peggy Roberts, CPS, treasurer; Jeanne Brownfield and Helen Thomas, board members; and Anne Boring, advisor.

Additional information and advance registration forms may be obtained from any NSA member. Anyone connected with the secretarial field is welcome to attend Saturday's program.



**Rider wanted from Washington Pike, Valley View Area, Smithwood, Fountain City to East, North or Central Portals, straight day.** W. L. McCormick, plant phone 3-7951, home phone Knoxville 522-5207.

**Riders wanted from West Adair, or Norwood Section, Knoxville, via Clinton Highway, straight day.** J. R. Johnson, plant phone 3-5005, home phone Knoxville 689-5639.



**SPRING CLEAN-UP ACTIVITIES** began last week as divisional coordinators met to discuss plans for this year's brightening-up projects. From left are Fred Hawk, Kenneth D. Cook, W. C. Hoppe, T. C. Wilson, (Bob Helton, hidden behind Wilson), J. A. Young, Ed F. Gammon, John Minchey, C. W. Clower, A. E. Perry, K. O. Pearson and L. E. Lebo, from ORNL's Biology Division. From the Fire Prevention Department are leaders Doyle Williams, standing at left, and E. F. Greer, right.

## Division Coordinators Form Clean-Up Plans As Big Spring Push In Plant Gets Underway

Messy work areas have been described as "temporary." But who ever heard of a "temporary fire?" Thus is asked the question in the current slide show emphasizing the plant's activities this week in brightening up the place. The removal of fire hazards is the main purpose of Spring Clean-Up Week.

Divisional coordinators met last week to form plans for the assault on unneeded materials and trash, as inspection and re-inspections were planned. Representing each division in the plant are W. C. Hoppe, Accounting and Budget; J. A. Whitten, Assembly; K. O. Pearson, Development; K. D. Cook, Engineering; A. E. Perry, Fabrication; J. A. Young, Industrial Relations; J. W. Minchey, Maintenance; C. W. Clower, Materials and Services; Fred Hawk, Metal Preparation; T. C. Wilson, Shift Superintendents and Utilities; and E. F. Gammon, Technical. Oak Ridge National Laboratory coordinators include W. C. Tunnell, L. E. Lebo, and Bob Helton.

### Slide Program Given

A 40-slide program is being shown in many safety meetings during the entire month of April. The slides depict poor housekeeping practices that were found throughout the plant. A fire door was blocked; an extinguisher was inaccessible; oily rags were improperly stored; junk was allowed to pile up in corners or under stair-wells; flammable liquids were improperly marked; electrical cords bore no inspection tags; flammable cleansing compounds

were not stored in proper containers; storage shelves and bins were poorly arranged; and so the list grew.

Salvage, at extension 3-7972, awaits your call. They will put on an extra effort coordinated with the rest of the plant, to get as much of the rubbish down the road as possible. Just give them a call, and let them put you on schedule.

### Fire A Reminder

While the huge forest fire below Y-12 recently did not concern poor housekeeping or improper attitudes, it did hit home the violence and swiftness of a destructive fire.

And a fire inside the plant could very well put us out of business... a big enough fire, that is.

And fire is like any other accident; it's constantly looking for a place to happen.

Coordinators will designate fellow division employees to assist them this week in ferreting out any fire hazard that may exist in the general area.

### General Directors

Fire prevention efforts, and Spring Clean-Up Week in general, are being directed by S. F. Creigh, E. F. Greer and Doyle Williams.

Recent campaigns in the plant have paid off handsome dividends in reducing fire hazards throughout Y-12. Not only are the hazards corrected, but the place looks

better, and other accident potentials are removed.

So let's all get behind the full efforts of the plant to make the place a little cleaner, a place where an accident is less likely to happen.

## Almost Every Industry Uses UCC's Chemicals

Almost every industry uses one or more of the over 400 chemicals produced by the Chemicals Division of Union Carbide Corporation. The surface coatings industry is one of the largest markets for solvents and latexes. Substantial quantities of Union Carbide chemicals are used in anti-freezes and detergents. Another large user is the plastics industry. To the textile industry, the Division markets over 100 different chemicals; and to the pharmaceutical industry, about 90. Among those produced for the automotive industry are oil additives, fuel additives, and hydraulic brake fluids. Companies making such products as cosmetics, perfumes, floor polishes, paper, and leather goods also use Union Carbide chemicals as basic ingredients or processing fluids.

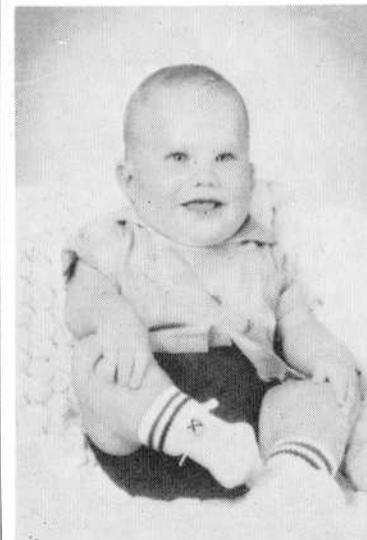
## COUNT YOUR BLESSINGS

There's always something to be thankful for if you take time to look for it. For instance, isn't it great that wrinkles don't hurt?

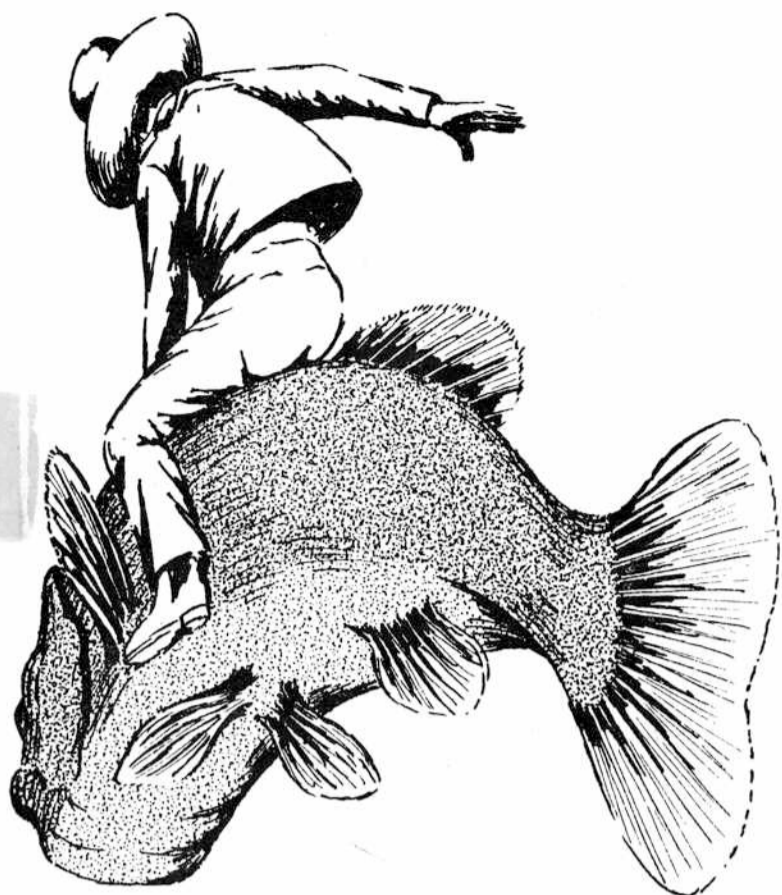
## All-Verdi Music Set For Saturday

The combined Oak Ridge Symphony Orchestra and Chorus will present an all-Verdi concert Saturday. The program is set for Saturday, April 23, at 8:15 p.m. in the Oak Ridge High School Auditorium.

The concert includes Giuseppe Verdi's Overture to La Forza del Destino, Stabat Mater for orchestra and chorus, the Anvil Chorus from Il Trovatore, the Prelude and Trio from Act III of I Lombardi with soloists Jan Vanderburgh, soprano; George McFadin, tenor; and Joseph McGrory, bass; and Barbara Marable, violin obligato. The final number is "Hymn of the Nations" with tenor soloist William Albrecht.



**CARLOS WADE AND REBA LEE** Cunningham are the fine grandchildren of T. E. Rogers, Electrical. They are the children of Mr. and Mrs. Wade Cunningham, Hixon, Tennessee. Carlos was one year old recently, and already proudly proclaims that he is "Pap-Paw's" boy.



## Shifters Plan Another Fishing Rodeo As Norris Waters Beckon To Y-12 Anglers

E, F, G, H and J Shift folks are all set for their big Fishing Rodeo Saturday, April 23, at the Stardust Boat Dock, Norris Lake. The season is open on largemouth, smallmouth, crappie, pike and bream for the big contest.

A few rule changes have been put in for this rodeo. All who participate in the rodeo must be registered at the dock prior to fishing in the contest. Registration is between the hours of 6 and 10 a.m. After 10, no one may enter the competition.

Award winners will be determined immediately after 5 p.m. and will be awarded only to those present. Prizes will not be granted to an absent fisherman.

Prizes for largemouth include a Coleman Catalytic heater, and a Shakespeare fly rod. The smallmouth awards are a Shakespeare spin cast rod and an outing kit. The crappie prizes are a True Temper spin rod, a Zebco reel and a parka. The pike prizes are a Shakespeare rod and reel set and a boat seat. For the best bream it will be a Mitchell #300,

a tackle box and a parka rain suit.

All Y-12ers and their families are eligible to enter in Saturday's rodeo. But remember the rule changes. You have to pre-register before participating in the contest, and you have to be there at 5 p.m. when the awards are passed out.

One fish award per entry, of course.

There will be a big dock prize also to be given away by drawing.

## Recreation



**Saturday, April 23**

FISHING RODEO, 6 a.m.-5 p.m., Stardust Boat Dock, Norris Lake, E, F, G, H and J Shifts.

HI-POWERED RIFLE LEAGUE: 8:45 a.m., Oak Ridge Sportsmen's Association.

**Tuesday, April 26**

PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School Gymnasium.

**Wednesday, April 27**

IN-DOOR RIFLE LEAGUE: 7 p.m., Anderson County Gun Club.

GOLF: Deadline for entering Lambert Acres Tournament, 4:30 p.m.

**Thursday, April 28**

GOLF: Drawing tee-off times at Lamber Acres, 8:30 a.m.

**Saturday, April 30**

GOLF TOURNAMENT: 6 a.m.-on, Lambert Acres Golf Course.

## Softball Teams Piped By The Siren Spring

Come all ye jolly softball players! Thus pipes the Pied Piper of Spring, as Recreation readies the 1966 season for play on the sand lots in Oak Ridge. The application below appears for the last time in this issue of the Bulletin.

Deadline for filing is Friday, April 22, at 4:30 p.m. Don't say we didn't warn you!

## Y-12 - ORNL SOFTBALL LEAGUE

### 1966 Entry Form

Name of Team \_\_\_\_\_

Manager \_\_\_\_\_ Plant \_\_\_\_\_ Home \_\_\_\_\_  
Phone: \_\_\_\_\_ Phone: \_\_\_\_\_

Asst. Mgr. \_\_\_\_\_ Plant \_\_\_\_\_ Home \_\_\_\_\_  
Phone: \_\_\_\_\_ Phone: \_\_\_\_\_

Deadline for Entry 4:30 p.m., April 22, 1966.

Complete fully and mail to Recreation Department, Building 9704-2.

## Bumpers Take Classic Alley Honors

The Bumpers took the second half of the Classic League last Thursday night even though the All Stars clobbered them by taking four points.

The Bumpers will meet the Swingsters in a roll-off for the league Championship scheduled for tomorrow night.

The Swingsters, first half winners, were also "goose-egged" by the Rippers who took four points. Other four point victories saw the Tigers claw the Wolves, and the Screwballs belting the Smelters.

Scoring three point wins were the Rebels over the Playboys, the Has Beens socked the Eightballs and the Splinters scratched the second place Markers. Splitting "even-stepen," by taking and giving two points were the Cubs and the cellar-dwelling Wasps.

Individual single game scoring honors went to R. A. (Dick) Huber of the All Stars, with a 228 scratch and a 246 handicap. Individual series honors went to the old "veteran and warhorse" of the hard wood, retired Al Groppe, with a 565 scratch and a 649 handicap.

Team single honors went to the All Stars who had a 970 scratch and 1,104 handicap.

Serieswise it was the Rippers with a 2,592 scratch and 2,994 handicap.

Final Standings Follow:

Team	W	L
Bumpers	39	21
Markers	38	22
Swingsters	37	23
All Stars	37	23
Rebels	35	25
Has Beens	35	25
Eightballs	34	26
Wolves	31	29
Tigers	30	30
Rippers	30	30
Playboys	29	31
Splinters	29	31
Cubs	22½	37½
Screwballs	20	40
Smelters	18½	41½
Wasps	15	45

## Jack Huff Leads Hi-Power Rifles

In the first All Carbide Hi-Powered Rifle match of the season Y-12's Jack Huff fired the highest score with a 242 out of a possible 250. George Reimann, ORNL, scored a 240-18v, the next highest score. This match was lost by Reimann probably because of his good nature. After the 10-shot rapid-fire sequence at 200 yards, the pit boy, examining George's target, found nine bull's eyes but could not find another hole anywhere on the target. Under these conditions, the shooter can retire the sequence or take the score of 45 for that run. Rather than delay the match and retire, George took the 45 score, although he usually fires a 50. The extra five points could have made the difference.

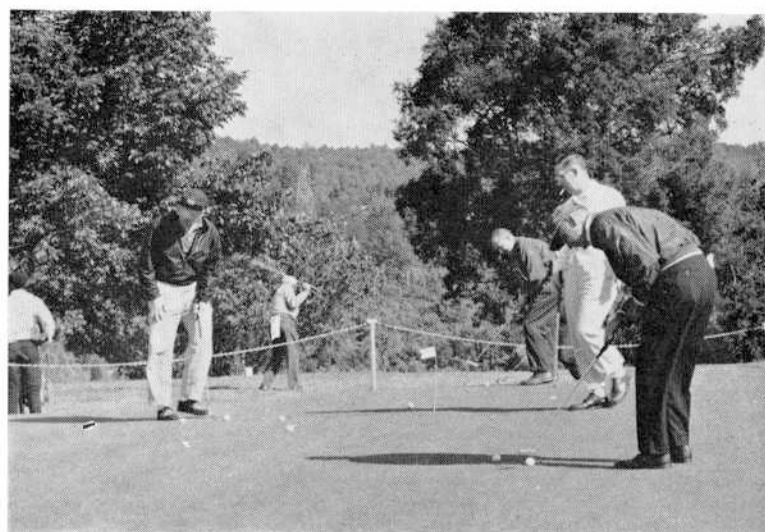
A. Abbatiello, ORNL, took third place with a 240-15v, while Arvin Quist, ORNL, nosed out Jack Spurling, Y-12 on V-count for fourth place, shooting a 238-17v vs. Jack's 238-14v.

Other scores included:

Firer	Score
Harry Hoy, ORN	235
Bert Searles, Y-12	229
Ed Scott, Y-12	221
Walt Zobel, ORNL	213
Charles Evans, ORGDP	212
Sam DeCamp, ORNL	212
Vic Vaughn, ORNL	208
Jim Bell, ORNL	207
Dick Sears, ORNL	201
Bob Damen, ORGDP	192
Bill Galyon, Y-12	189
Ray Ward, ORNL	188
John Mrochek, ORNL	187
Bill Kelley, Y-12	178
Ed Foley, ORGDP	172
Hugo Bertini, ORNL	167
L. R. Stinnett, ORNL	123

## WHO'S HENPECKED?

It's easy to spot a husband who won't admit to being henpecked. He smokes a cigar while he washes the dishes.



TEE-MEN FROM Y-12 line the putting greens to raise the curtain Saturday on the first big tournament of the year. The golf season makes its debut on the Lambert Acres course, over near Maryville. Deadline for entering the competition is 4:30 p.m. next Wednesday, April 27.

## Lambert Acres' Rolling Greens Is Scene For Debut Of Golf Season For All Y-12

The rolling hills in Blount County will offer the first challenge to Y-12 golfers Saturday, April 30. Lambert Acres, Maryville, will be the locale for the first tee-action of the season.

Applications are now being taken by the Recreation Department for foursomes who wish to compete in the big action. (Three-somes may enter, but no less.) Golf balls will be the big pay-off for winners in both low scratch and handicap scoring. The plant will be divided into four equal divisions, and prizes awarded in each section.

Deadline for entering April 30's tournament is next Wednesday, April 27, at 4:30 p.m. Drawings will be held the next morning at 8:30 a.m. Applicants will be given as close to their desired times as possible.

### Other Tournaments Set

The golf advisory committee has agreed that USGA Rules will govern the play in conjunction with all of Y-12's set tournaments. Four other forays are planned for May, June, July and August at Wallace Hills, also at Maryville; Melton Hill, Clinton; Springbrook, Niota; and Southwest Point Country Club, Kingston. The committee consists of J. C. Thompson Jr., W. K. Forrester, H. R. Butler, W. T. Mee and R. T. Cantrell, Recreation Director.

Scouting reports show the Lambert Acres greens in excellent shape . . . with no frost expected on the greens or fairways.

### Tee-Offs At 6 A.M.

Tee-off times will begin at 6:30

a.m. and continue as long as necessary . . . assuring all golfers a chance at the first tee.

Pros and amateurs throughout the plant are already polishing those irons and waxing those woods for the five big tournaments.

Better get that application in while there's still time. Directions to the Lambert Acres course will appear in next week's Bulletin . . . so nobody need get lost.

## Badgers Barely Clip Big Five In C Rolloff

The C Bowling League capped off its 1965-66 wars with the close roll-off between the Badgers and the Big Five. The Big Five took the season's first half, the Badgers the second.

The Badgers eked through with a 12-point victory . . . 2927 pins to the Big Five's 2915.

The first two games went to the Badgers 1001 to 928, 1000 to 996 . . . and the third tilt went to the Big Five 991 to 926.

The Badgers' Tom Watts had high singles . . . 226 scratch, 260 handicap. Dick Huber, captain, rolled a 569 scratch series . . . and Sam Campbell tallied a 622 handicap series.

Ray Galford, Big Five, posted a 12-point victory . . . 2927 pins total.

The Badgers, other than the above mentioned top-scorers, include Paul Evans and A. E. Smith.

The 12-team league will probably be back for more alley-blood next year.

## Tee-Off Time Application For Lambert Acres Tournament

**Saturday, April 30**

Foursome

\_\_\_\_\_, Leader

Leader's office phone \_\_\_\_\_

Home phone \_\_\_\_\_

Tee-Off Time Preferred \_\_\_\_\_

Fill out completely and return to the Recreation Office, Building 9704-2. Deadline for entering is 4:30 p.m. Wednesday, April 27. Tee-off times will be drawn the next day, Thursday, April 28, at 8:30 a.m.



UNION CARBIDE CORPORATION  
NUCLEAR DIVISION

RETURN POSTAGE GUARANTEED

Post Office Box Y  
Oak Ridge, Tennessee—37830

BULK RATE  
U.S. Postage  
**PAID**  
Oak Ridge, Tenn.  
Permit No. 71



The waning days of April find more Y-12ers crossing important landmarks with Union Carbide Corporation. Congratulations.

#### 15 YEARS

Laura B. Hawkins, Chemical Services, April 20.

Louise A. Warmley, Janitors Department, April 20.

Denton L. Bowers, General Machine Shop, April 20.

Roy Turner, Process Maintenance, April 20.

Leroy T. Sliger, Area Five Maintenance, April 23.

William L. Boutwell, Chemical Services, April 23.

Victor D. Sherrod, General Machine Shop, April 23.

George E. McNabb, H-1 Foundry, April 23.

Paul J. Long, Physical Testing, April 23.

Elma O. Harber, Chemical Services, April 25.

Stanley E. Justice, Chemical Services, April 25.

Charles G. Peck, Chemistry Development, April 25.

#### 10 YEARS

Charlie B. Burris, Dimensional Inspection, April 22.

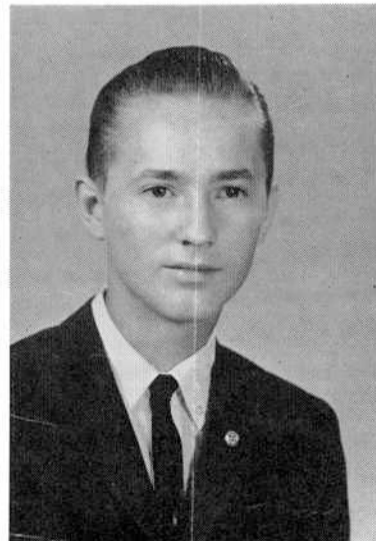
Earnest W. Henline, Janitors Department, April 24.

Harry C. Webb, H-2 and F-Area Shops, April 26.

#### EXTENDING HEATER LIFE

If you want to extend the life of your water heater, drain a few quarts from the bottom of the tank several times a year, says the Plumbing-Heating-Cooling Information Bureau. This will keep sediment from accumulating.

## Maxwell Son Is In Capitol Show



John T. Maxwell Jr.

John T. Maxwell Jr., a freshman at Tennessee Technological University, is a member of the precision drill team there, and has been invited to Washington's Cherry Blossom Festival.

The drill team, known as the Rebel Rifles, represented the Southeast in the fancy drill competition, held in connection with the capitol's Cherry Blossom, held April 15.

The Rebel Rifles recently scored 99 out of a possible 100 points during a federal inspection. The score was the highest ever earned by a member of drill teams from this area.

The proud father is in Y-12's Guard Department, and lives at 119 North Seneca, Oak Ridge. There is another son, Kendall, at home, a junior at Oak Ridge High School.

## Gus Angele Previews Paper To Be Delivered In Barcelona

G. J. Angele, Engineering Mechanics, will preview a paper this weekend he is slated to deliver in Barcelona, Spain, this October. The paper, entitled "Protection of Public Water Supply Systems Against Pollution by Water Returns," will be given Friday, April 22, before the Tennessee Valley Section of the American Society of Civil Engineers, at their Spring meeting in Gatlinburg.

The Seventh International Water Supply Congress will be held in Barcelona October 3-7.

Water contamination is not a new subject with man. Prior to the 20th century, epidemics of asiatic cholera and typhoid fever, literally decimated entire cities. Not until our modern age has man become aware of the necessity of pure drinking water. Even with today's knowledge of this necessity, man is often lax in his controls.

#### A Public Disgrace

Cross connections have become a public health problem and their lack of control is a public disgrace, Angele points out in his detailed paper.

Completely separate systems of piping for potable and nonpotable water offer the greatest safety in protecting water systems from cross connections.

Angele also discusses the effectiveness of various devices for the prevention of back-flow.

#### Engineer Extremely Active

Angele attended high school and Johns Hopkins University, Baltimore Maryland, before joining the Tennessee Valley Authority in 1935. He worked with TVA until coming here on May 17, 1944. At present he is a design engineer serving as Plant Sanitary Engineer in Y-12's Engineering Mechanics Department. He was elected to membership in the American Society of Civil Engineers in 1943 and has served as secretary and president of the Oak Ridge Subsection of which he is a charter member. He also served as a member of the Pipe Line Operation and Maintenance Committee of the ASCE. Angele is also a member of the American Water Works Association and is presently chairman of the Joint Committee on Cross Connections and Backflow prevention for the AWWA. He is a registered engineer in the State of Tennessee (since 1949) and is also a member of the Tennessee Society of Professional Engineers.

The Y-12 engineer is serving his seventh year as Chairman of the Board of Plumbing Examiners for the City of Oak Ridge, having held this post since the board was organized in 1959.

Angele has written several papers that have been published in the AWWA Journal on cross connections.

#### A FISHERMAN

One wife, whose husband spends much of his time on the lakes, defines her fisherman as "A jerk at one end of a line waiting for a jerk on the other."



Gustave J. Angele Sr.

## Blue Angels Are Mixed League Aces

The Blue Angels capped the Mixed Bowling League crown last week by defeating the Better Halves in the league's roll-off. Total pin count was Blue Angels 2238 . . . Better Halves 2150, a margin of 88 pins.

High female scorers included June Davis, Better Halves, with a single game of 161 scratch, 210 handicap. The Angels' Verna Peckman racked up a 414 scratch series, 558 handicap series.

On the male side it was Jim Young, Blue Angels, in singles with a 186 scratch, 229 handicap game. Ed Cothron, Better Halves, rolled a 488 scratch series . . . and he and Young tied for handicap series, each with 578.

The Angels took game one by 39 pins, lost number two by eight pins . . . then took number three by 57.

The roll-off ended the 1965-1966 league's season for the eight-team bowlers.

During the excitement of the close roll-off, Fred Huskey, Better Halves, captured a 4-7-10 split.

## Origin Of Spring Makes No Difference

The word "Spring" comes from the Anglo-Saxon, Springan . . . which means to leap or bound. We know it as the vernal season, usually including March, April and May when plants begin to vegetate and grow in the middle latitudes north of the Equator. Astronomically Spring begins with the vernal equinox and ends with the summer solstice. Call it by any other name . . . it's just as sweet!



## Course Completed

Continued from Page 1

ponents and operating characteristics. Programming detailed tape codes, formats; the APT language, and programming with APT.

Laboratory phase of the course includes machine tool operation, including the actual machining operations on production parts . . . and problem identification, electrical, mechanical and tapes.

The brief ceremonies were held in the Cafeteria, and students and teachers enjoyed coffee and sweet-rolls with division superintendents after the awards were made.

#### Machine-Made Yo-Yos

Visitors during the Family Day festivities last summer well remember the numerically - controlled machine that kicked out plastic yo-yos as souvenirs for the visitors.

Numerically-controlled machining tools are not expected to replace man in any fashion; but their versatility is expected to improve the performance of both man and the machine.

## Huff Paces Y-12 22 Rifle Team

The sixth firing of the 22 Calibre Rifle League was fired recently with the Independents gaining on the pack, moving out in front of the X-10 team. Jack Huff paced the Y-12ers with a 295 scratch total, 295.217 handicap score. B. L. Powers came in a close second with 293 scratch, 293.758 handicap. Third in line was G. W. Holcombe with 281, 288.621.

The Y-12 team fired 1416 scratch, 1453.247 handicap . . . Independents, 1450 and 1455.992 . . . and X-10 totaled 1429, 1447-.645.

League standings follow:

Team	Points
Independents	24
X-10	22
Y-12	14

## Tours Of Library Going On This Week

April 17-23, this week, is National Library Week. Friends of the Library are sponsoring a tour of the Oak Ridge Library each night this week from 7 p.m. until 9 p.m. Adults and children are both welcomed on the tour of the library facilities.

The week will be highlighted by a Book Rummage Sale, set for all day Saturday in the Green Room of the Ridge Recreation Hall, next door to the Library.

#### PROVIDENTIAL NATURE

Old Mother Nature is providential. She gives parents 12 years to develop a love for children before turning them into teen-agers.

## Camera Club Hears Hiking Club Fans

Neither rain, lightning or down-pour could keep approximately 40 members and guests from attending the monthly meeting of the Carbide Camera Club held April 12 in Cheyenne Hall.

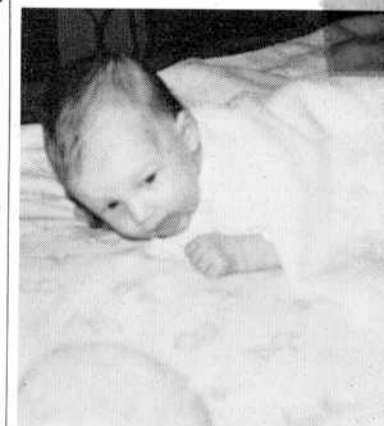
R. A. Lorenz and O. K. Sergeant, vice president, Smoky Mountain Hiking Club, gave a dual presentation of the purposes, facilities and activities of their club, which included a four-seasonal slide show of their own photographic competition winners. The color slides of photographic excellence . . . taken over a 20-year period . . . depicted breathtaking landscapes and wild flowers found along the trails. A question-answer session followed. (Camera Club members interested in participating as guests on an "easy hike" of about four miles should get in touch with O. K.)

Joe Jernigan acted as critique for the month's "Open" competition, and Bill Russell again took first place in the black and white competition with silhouetted figures under an overhanging cliff against a mountainous lake background.

Club members will be interested to learn that a tour of the ORNL Plant is being arranged for sometime in the late summer or fall, and all cameras are cordially invited. In the meantime, all members are again urged to amass their entries for the Salon competition in June from more accessible locales.

#### REAL OLD-TIMER

A kid down the block is regarded with awe by his fellow playmates because he can remember when the World Series was played in black and white.



A GREAT nephew of Emma Puckett (what we mean is that Emma is the boy's great aunt) is little Thomas Earl Runyan Jr., Louisville. Tommy is the son of The Runyons Sr. (Mrs. Runyon is remembered as Pat Puckett, former Y-12er.)